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TITLE : PLASTIC OR RUBBER MAGNET
COMPOSITION

OH

(O)

P

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R

R'

ABSTRACT : PURPOSE: To obtain titled composition of highly filled type with good processability, capable of forming magnet of high magnetic flux density and heat and impact resistance, by incorporating a resin or rubber with a magnetic powder surface-coated with a specific organophosphorus compound treatment.

CONSTITUTION: The objective composition can be obtained by incorporating (A) a resin or rubber with (B) 5~95wt% a magnetic powder surface-coated with a treatment consisting of an organophosphorus compound of formula [R and R' are each (substituted) 1~30C alkyl, alkenyl, aryl, alkoxy, alkenoxy, aryloxy], e.g., di-2-ethylhexyl phosphate. In the case of said R or R', 4~18C type will be preferable for alkyl. Use of unsaturated or mercapto group-substituted R or R' will lead to improved mechanical properties of the composition.

EFFECT: Capable of producing magnets of significantly higher residual magnetic flux density compared to those from titanium coupler treatment.

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